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SPECIFICATION2 **TITLE:** CHERRY TREE NAMED 'GLENOIA'3 **INVENTOR:** Lowell Glen Bradford4 **ADDRESS:** 12439 E. Savana Road

5 Le Grand, California 95333

6 **BOTANICAL CLASSIFICATION:** *Prunus avium.*7 BACKGROUND OF THE VARIETY

8 In a continuing effort to improve the quality of shipping fruits,
9 I, the inventor, typically hybridize a large number of peach, nectarine,
10 plum, apricot, and cherry seedlings each year. I also grow a lesser
11 number of open pollinated seeds of each of these fruits, usually to
12 capture recessive traits. The present invention relates to a new and
13 distinct variety of cherry tree, which has been denominated varietally as
14 'GLENOIA'. During the spring of 1993 I gathered fruit from several
15 different unnamed cherry seedlings in my experimental orchard at Bradford
16 Farms near Le Grand, California in Merced County (San Joaquin Valley).
17 The seeds from this fruit were removed, cracked, stratified, germinated,
18 and grown as seedlings on their own root in my greenhouse, and upon
19 reaching dormancy transplanted to a cultivated area of my experimental
20 orchard described above. During the fruit evaluation season of 1997 I
21 selected several cherry trees that exhibited desirable qualities. The
22 present variety was selected as a single tree from the group described
23 above. Subsequent to origination of the present variety of cherry tree,
24 I asexually reproduced it by budding and grafting in the experimental
25 orchard described above, and such reproduction of plant and fruit

1 characteristics were true to the original plant in all respects. The
2 reproduction of the variety included the use of 'Colt' (unpatented)
3 rootstock, upon which the present variety was compatible and true to
4 type.

5 The present variety is most similar to the 'Glenred' (United States
6 Plant Patent Number 12,859) cherry by producing cherries that are large
7 in size, oblate in shape, firm in texture, dark red in skin color, red in
8 flesh color, and sweet in flavor, but is distinguished therefrom and an
9 improvement thereon by blooming about two days later, by producing
10 cherries that ripen about ten days later, and by being a pollinator for
11 both the 'Glenred' cherry and the 'Tulare' (United States Plant Patent
12 Number 6,407) cherry.

13 SUMMARY OF VARIETY

14 In summary, the present variety is characterized by a medium size,
15 vigorous, hardy, self-sterile, productive and regular bearing tree. The
16 fruit matures under the ecological conditions described in the latter
17 part of May, with first picking on May 25, 2003. The fruit is uniformly
18 large in size, very sweet in flavor, oblate in shape, clingstone in type,
19 firm in texture, red in flesh color, and full red in skin color.

20 DRAWING

21 The accompanying photograph displays a characteristic twig
22 bearing leaves, two fruits with the stems attached, several whole fruits,
23 detached from the stems to exhibit the skin color and form, two fruits
24 sectioned along different planes to reveal the flesh and fibers, and two
25 individual leaves, all typical of the subject variety.

POMOLOGICAL CHARACTERISTICS

2 Referring now more specifically to the pomological
3 characteristics of this new and distinct variety of cherry tree, the
4 following has been observed under the ecological conditions prevailing
5 near Le Grand, Merced County (San Joaquin Valley), California, and was
6 developed at the state of firm ripe on May 26, 2003, on a four year old
7 tree on Colt rootstock. All major color code designations are by
8 reference to the Inter-Society Color Council, National Bureau of
9 Standards. Common color names are also used occasionally.

Tree

11 Size: Medium, reaching a height of 13' [3.96 m.] and a spread of 9'
12 [2.74 m.] after four growing seasons on Colt rootstock.

13 Vigor: Vigorous, responding typically to irrigation and fertilization.

14 The plant should be grown on a standard commercial rootstock

15 for production purposes.

16 Growth: Upright.

17 Form: A natural tendency to generate a central leader system if
18 unpruned, but a vase shape may be obtained by pruning.

19 Branch Angle Range: 40 to 80 degrees.

20 Hardiness: Hardy with respect to central California winters.

21 Heat Tolerance: Observed to perform adequately in typical central

22 California climatic conditions, which typically include
23 extended periods of heat.

1 Production: Productive.

2 Fertility: Self-sterile, must be cross pollinated by another early
3 blooming cherry variety, such as 'Glenred' or 'Tulare'.

4 Bearing: Regular bearer with no alternate bearing yet observed.

5 Trunk:

6 Size.- Medium, with a maximum diameter of 2 1/2" [63.5 mm.]
7 after the fourth growing season.

8 Texture.- Somewhat shaggy.

9 Bark Color.- Grayish brown [61. gy.Br].

10 Lenticels.- Approximate Number Per Square Inch: 12.

11 Color: Brownish orange [54. brO].

12 Typical Size: 1/8" to 3/8" [3.2 - 9.5 mm.].

13 Branches:

14 Main Scaffold Diameter. - 1 3/4" [44 mm.] measured 12"
15 above the crotch.

16 Limb Diameter. - 1 1/8" [29 mm.] measured 12" above the first
17 fork.

18 Texture.- Smooth on 1st year wood, increasing roughness
19 with age.

20 Color.- 1st Year Wood Topside: Grayish red [19. gy.R].

21 1st Year Wood Underside: Brilliant yellow green
22 [116. brill.YG].

23 Older Wood: Grayish brown [61. gy.Br].

24 Lenticels.- Approximate Number Per Square Inch: 15.

25 Color: Brownish orange [54. brO].

1 Typical size: 1/8" to 1/4" [3.2 - 6.4 mm.] .

2 Leaves: Size.- Medium.

3 Average Length: 5 1/8" [130 mm.] .

4 Average Width: 2 1/2" [63.5 mm.] .

5 Arrangement.- Alternate.

6 Thickness.- Medium.

7 Form.- Elliptical.

8 Apex.- Acuminate.

9 Base.- Acute, mostly rounded.

10 Surface.- Smooth.

11 Color.- Dorsal Surface: Dark olive green [126. d.OlG].

12 Ventral Surface: Moderate yellow green [120. m.YG].

13 Margin.- Finely serrate.

14 Venation.- Pinnately net veined.

15 Vein Color.- Light yellow green [119. l.YG] to Light reddish

16 brown [42. l.rBr].

17 Petiole.- Average Length: 1 7/16" [35.6 mm.] .

18 Average Thickness: 1/16" [1.6 mm.] .

19 Color: Very dark purplish red [260. v.d.pR] topside

20 and Grayish red [19. gy.R] underside.

21 Stipules.- Number: Typically 2 per leaf.

22 Average Length: 7/16" [11.1 mm.] .

23 Color: Grayish pink [8. gy.Pk] becoming

24 Very deep red [14. v.deep R] when

25 old and dry.

1 *Glands*.- Number: 2 per leaf.

2 Position: On petiole

3 Size: Large.

4 Form: Reniform to oval.

5 Color: Very deep red [14. v.deep R] along the edge and

6 Light grayish Red [18. l.gy.R] toward the

7 center.

8 *Leaf Buds*.- Conic.

9 Flower Buds:

10 *Hardiness*.- Hardy, with respect to central California winters.

11 *Diameter*.- Typically 5/16" [7.9 mm.] right before bloom.

12 *Length*.- Typically 5/8" [15.9 mm.] right before bloom.

13 *Form*.- Free.

14 *Surface*.- Nonpubescent.

15 *Color*.- White [263. white].

16 Flowers: Perfect, complete, perigynous, usually a single pistil,
17 typically twenty or more stamens, five sepals and petal
18 locations alternately positioned.

19 *Average Flower Diameter*.- 1 5/16" [33.3 mm.].

20 *Number of Petals*.- Usually five.

21 *Petal Shape*.- Circular to oval.

22 *Petal Margin*.- Somewhat wavy with an occasional serration.

23 *Average Petal Diameter*.- 9/16" [14.3 mm.].

24 *Average Petal Length*.- 9/16" [14.3 mm.].

25 *Petal Apex*.- Rounded with a small notch located at the top

1 center of the margin on many.

2 Petal Base.- Rounded to slightly cuneate.

3 Petal Color.- White [263. white].

4 Anther Color.- Light yellow [86. l.Y].

5 Stigma Color.- Pale yellow green [121. p.YG].

6 Sepal Color.- Grayish purplish red [262. gy.pR] over Light
7 yellow green [119. l.YG].

8 Sepal Length.- 1/4" [6 mm.].

9 Sepal Width.- 5/32" [4 mm.].

10 Average Pistil Length.- 1/2" [12.7 mm.].

11 Average Stamen Length.- 9/16" [14.3 mm.].

12 Fragrance.- Moderate.

13 Blooming Period.- Early compared with other varieties.

14 Onset of Bloom.- Five percent on March 14, 2003, about two
15 days after 'Glenred' and three days before
16 'Tulare'.

17 Date of Full Bloom.- March 23, 2003.

18 Duration of Bloom.- Five to ten days, dependent on ambient
19 temperature.

20 Number per cluster.- 3 to 4 most common.

21 FRUIT

22 Maturity When Described: Firm ripe, May 26, 2003.

23 Date of First Picking: May 25, 2003.

24 Date of Last Picking: May 31, 2003.

25 Size: Uniform, large.

1 Average Diameter Axially.- 7/8" [22.2 mm.].

2 Average Cheek Diameter.- 1 1/16" [27.0 mm.].

3 Average Diameter Across Suture Plane.- 15/16" [23.8 mm.].

4 Typical Weight.- 0.30 ounces [8.6 grams].

5 Form: Uniform, symmetrical, compressed axially and around the suture.

6 Cheek Plane Form.- Oblate.

7 Suture Plane Form.- Oval.

8 Axial View Form.- Elliptical.

9 Suture: An inconspicuous Blackish red [21. blackish R] line located in a
10 shallow trough from the stem cavity but discontinuing at the
11 apex.

12 Ventral Surface: Rounded, slightly lipped toward the apex.

13 Lips: Equal.

14 Stem Cavity: Flaring, slightly compressed in the suture plane, suture
15 showing on one side.

16 Depth.- 3/16" [4.8 mm.].

17 Breadth.- 3/8" [9.5 mm.].

18 Base: Truncate to cordate.

19 Apex: Rounded, somewhat cordate when viewed along the suture.

20 Pistil Point: An inconspicuous dot depressed within the suture.

21 Stem: Medium.

22 Average Length.- 1 3/4" [44.5 mm.].

23 Average Width.- 1/16" [1.6 mm.].

24 Color.- Brilliant yellow green [116. brill.YG] with some Grayish
25 red [19. gy.R] tinting from sunlight.

1 Attachment.- Strong.

2 Skin:

3 Thickness.- Medium.

4 Surface.- Smooth.

5 Tenacity.- Tenacious to flesh.

6 Astringency.- Slightly astringent.

7 Tendency to Crack.- Slight after rain, not quite as resistant as

8 'Tulare'.

9 Color.- Very dark red [17. v.d.R] to Very deep red

10 [14. v.deep R] over the entire surface.

11 Flesh: Color.- Dark red [16. d.R] with Very deep red [14. v.deep R]

12 streaking near the stone.

13 Surface of Pit Cavity.- Very dark red [17. v.d.R] fibers

14 breaking when twisted from the stone.

15 Amygdalin.- Moderate.

16 Juice.- Abundant, rich.

17 Juice Color.- Deep red [13. deep R].

18 Texture.- Very firm, crisp.

19 Fibers.- Abundant, fine.

20 Ripens.- Slightly earlier toward the apex and near the stone.

21 Flavor.- Very sweet with moderate acid, usually 20 to 23 brix.

22 Aroma.- Slight.

23 Eating Quality.- Very best.

24 STONE

25 Type: Clingstone.

STONE

1 Form: Obovoid.

2 External Color: Light grayish yellowish brown [79. l.gy.yBr].

3 Pit Wall Color When Cracked: Pale orange yellow [73. p.OY].

4 Internal Cavity Color: Light grayish yellowish brown [79. l.gy.yBr].

5 Average Width: 3/8" [9.5 mm.].

6 Average Length: 1/2" [12.7 mm.].

7 Average Breadth: 5/16" [7.9 mm.].

8 Hilum: Rounded.

9 Base: Rounded.

10 Apex: Acute to rounded.

11 Sides: Equal.

12 Surface: Smooth.

13 Ridges: Two thin ridges along the ventral edge.

14 Average Pit Wall Thickness: 1/16" [1.6 mm.]

15 Tendency To Split: None observed.

16 Kernel:

17 Form. - Oval.

18 Skin Color. - Yellowish white [92. yWhite] when freshly removed.

19 Pellicle Color. - Grayish yellow [90. gy.Y].

20 Vein Color. - Pale yellow [89. p.Y].

21 Taste. - Bitter.

22 Viable. - Yes.

23 Average Width. - 7/32" [5.6 mm.].

24 Average Length. - 5/16" [7.9 mm.].

25 Amygdalin. - Abundant.

USE

2 Market: Fresh market and long distance shipping.

6 Shipping Quality: Good.

7 Resistance To Insects: No unusual susceptibilities noted.

8 Resistance To Diseases: No unusual susceptibilities noted.

Other Notes

11 Although the new variety of cherry tree possesses the described
12 characteristics under the ecological conditions at Le Grand, California,
13 in the central part of the San Joaquin Valley, it is to be expected that
14 variations in these characteristics may occur when farmed in areas with
15 different climatic conditions, different soil types, and/or varying
16 cultural practices.